



**TROPICAL CYCLONE BULLETIN NO. 8**  
**Typhoon BETTY (MAWAR)**

Issued at 11:00 PM, 28 May 2023

Valid for broadcast until the next bulletin at 5:00 AM tomorrow.

**EXTENT OF TROPICAL CYCLONE WINDS CONTINUES TO EXPAND AS TYPHOON "BETTY" FURTHER WEAKENS OVER THE PHILIPPINE SEA**

<b>Location of Center (10:00 PM)</b>	
The center of the eye of Typhoon BETTY was estimated based on all available data at <b>570 km East of Tuguegarao City, Cagayan</b> or <b>580 km East of Aparri, Cagayan (18.2°N, 127.1°E)</b>	
<b>Intensity</b>	
Maximum sustained winds of <b>155 km/h</b> near the center, gustiness of up to <b>190 km/h</b> , and central pressure of <b>950 hPa</b>	
<b>Present Movement</b>	
<b>Northwestward at 10 km/h</b>	
<b>Extent of Tropical Cyclone Winds</b>	
<b>Strong to typhoon-force winds</b> extend outwards up to <b>770 km</b> from the center	

**TRACK AND INTENSITY FORECAST**

Date and Time	Center Position			Intensity		Movement dir. and speed (km/h)
	Lat. (°N)	Lon. (°E)	Location	MSW (km/h)	Cat.	
<b>12-Hour Forecast</b> 8:00 AM 29 May 2023	18.8	126.2	485 km East of Aparri, Cagayan	155	TY	NW 15
<b>24-Hour Forecast</b> 8:00 PM 29 May 2023	19.5	125.2	395 km East of Calayan, Cagayan	150	TY	NW 10
<b>36-Hour Forecast</b> 8:00 AM 30 May 2023	19.8	124.6	335 km East of Calayan, Cagayan	150	TY	WNW Slowly
<b>48-Hour Forecast</b> 8:00 PM 30 May 2023	20.1	124.3	245 km East of Basco, Batanes	140	TY	NW Slowly
<b>60-Hour Forecast</b> 8:00 AM 31 May 2023	20.7	124.1	235 km East of Itbayat, Batanes	140	TY	NNW Slowly
<b>72-Hour Forecast</b> 8:00 PM 31 May 2023	21.3	124.1	240 km East Northeast of Itbayat, Batanes	130	TY	N Slowly
<b>96-Hour Forecast</b> 8:00 PM 01 June 2023	23.6	124.7	430 km Northeast of Itbayat, Batanes	110	STS	NNE 10
<b>120-Hour Forecast</b> 8:00 PM 02 June 2023	25.4	126.0	665 km Northeast of Itbayat, Batanes (OUTSIDE PAR)	95	STS	NNE 10

Prepared by: RPG

Checked by: CFP



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TROPICAL CYCLONE WIND SIGNALS (TCWS) IN EFFECT			
TCWS No.	Luzon	Visayas	Mindanao
<b>1</b> Wind threat: <b>Strong winds</b>	<b>Batanes, Cagayan including Babuyan Islands, Isabela, Quirino, the northeastern portion of Nueva Vizcaya</b> (Kasibu, Quezon, Solano, Bagabag, Diadi, Villaverde, Bayombong, Ambaguio), <b>Apayao, Abra, Kalinga, Mountain Province, Ifugao, Ilocos Norte, the northern and central portions of Aurora</b> (Dilasag, Casiguran, Dinalungan, Dipaculao, Baler), <b>Polillo Islands, the northern portion of Catanduanes</b> (Caramoran, Viga, Gigmoto, Panganiban, Bagamanoc, Pandan), <b>the northeastern portion of Camarines Sur</b> (Caramoan, Garchitorena, Lagonoy, Tinambac, Siruma), and <b>the northern portion of Camarines Norte</b> (Vinzons, Paracale, Jose Panganiban, Capalonga, Talisay, Daet, Mercedes, Basud)	-	-
	Warning lead time: <b>36 hours</b> Range of wind speeds: <b>39 to 61 km/h (Beaufort 6 to 7)</b> Potential impacts of winds: <b>Minimal to minor threat to life and property</b>		

HAZARDS AFFECTING LAND AREAS
<p><b>Heavy Rainfall Outlook</b></p> <p><b>Forecast accumulated rainfall from tonight to tomorrow evening</b></p> <ul style="list-style-type: none"> <li>• <b>50-100 mm:</b> The eastern portion of Babuyan Islands and the northeastern portion of mainland Cagayan</li> </ul> <p><b>Forecast accumulated rainfall from tomorrow evening to Tuesday evening</b></p> <ul style="list-style-type: none"> <li>• <b>100-200 mm:</b> The eastern portion of Babuyan Islands and the northeastern portion of mainland Cagayan.</li> <li>• <b>50-100 mm:</b> Batanes, the rest of Babuyan Islands, the northwestern portion of mainland Cagayan, the northern portion of Apayao, Ilocos Norte, Ilocos Sur, Abra, and La Union</li> </ul> <p><b>Forecast accumulated rainfall from Tuesday evening to Wednesday evening</b></p> <ul style="list-style-type: none"> <li>• <b>Greater than 200 mm:</b> Batanes</li> <li>• <b>100-200 mm:</b> Babuyan Islands, Ilocos Sur, Abra, La Union, and the western portion of Benguet</li> <li>• <b>50-100 mm:</b> The northern portion of mainland Cagayan, Ilocos Norte, Apayao, Pangasinan, and the rest of Cordillera Administrative Region</li> </ul> <p><b>Forecast accumulated rainfall from Wednesday evening to Thursday evening</b></p> <ul style="list-style-type: none"> <li>• <b>100-200 mm:</b> Batanes, Abra, Ilocos Sur, La Union, and the western portion of Benguet</li> <li>• <b>50-100 mm:</b> Babuyan Islands, Pangasinan, and the rest of Cordilla Administrative Region,</li> </ul> <p>In addition, Typhoon BETTY will also <b>enhance the Southwest Monsoon</b> this week:</p> <ul style="list-style-type: none"> <li>• <b>Tomorrow:</b> Monsoon rains possible over the western portions of MIMAROPA and Western Visayas</li> <li>• <b>Tuesday:</b> Monsoon rains likely over the western portions of MIMAROPA and Western Visayas; possible over the rest of MIMAROPA and Western Visayas</li> <li>• <b>Wednesday:</b> Monsoon rains likely over the western portions of MIMAROPA and Western Visayas; possible over the western portions of Central Luzon and CALABARZON and the rest of MIMAROPA and Western Visayas.</li> </ul> <p>Under these conditions, <b>flooding and rain-induced landslides are likely</b>, especially in areas that are highly or very highly susceptible to these hazard as identified in hazard maps and in localities that experienced considerable amounts of rainfall for the past several days.</p>



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**HAZARDS AFFECTING LAND AREAS**

**Severe Winds**

- Wind Signal No. 1 is now hoisted for some localities along the eastern portion of Southern Luzon due to the expansion of the wind extent of the typhoon.
- Minimal to minor impacts caused by strong winds (i.e., strong breeze to near gale strength) are possible within any of the areas where Tropical Cyclone Wind Signal No.1 is currently in effect.
- Wind Signal No. 2 remains the most likely highest wind signal that will be hoisted, while Wind Signal No. 3 remains the reasonable worst-case scenario.
- Typhoon BETTY is starting to enhance the Southwest Monsoon. Occasional gusts are possible in the next 24 hours over localities in the eastern portion of Central Luzon, eastern and southern portions of Southern Luzon that are not under any Wind Signal, and most of Visayas. Such conditions are more likely in coastal and exposed upland/mountainous areas. The western portion of Luzon may experience similar conditions beginning on Tuesday or Wednesday.

**HAZARDS AFFECTING COASTAL WATERS**

Under the influence of BETTY, a **marine gale warning remains in effect** over the northern and eastern seaboard of Northern Luzon, eastern seaboard of Central and Southern Luzon, and the eastern seaboard of Visayas and Mindanao. For more information, refer to **Gale Warning #3** issued at 5:00 PM today.

**TRACK AND INTENSITY OUTLOOK**

- On the track forecast, BETTY will move generally northwestward slowly tonight through tomorrow and may become slow-moving or almost stationary by Tuesday or Wednesday while over the waters east of Batanes. Afterwards, the typhoon will turn north northeastward and gradually accelerate towards the waters east of Taiwan and the southern portion of Ryukyu Islands. BETTY may exit the Philippine Area of Responsibility on Friday evening.
- This typhoon is forecast to steadily weaken over the next five days due to cooler ocean waters (caused by upwelling of cooler waters in its wake) and dry air intrusion. BETTY may be downgraded into a severe tropical storm on Thursday.

Considering these developments, the public and disaster risk reduction and management offices concerned are advised to take all necessary measures to protect life and property. Persons living in areas identified to be highly or very highly susceptible to these hazards are advised to follow evacuation and other instructions from local officials. **For heavy rainfall warnings, thunderstorm/rainfall advisories, and other severe weather information specific to your area, please monitor products issued by your local PAGASA Regional Services Division.**

The next tropical cyclone bulletin will be issued at 5:00 AM tomorrow.

**DOST-PAGASA**

Prepared by:  **RPG**

Checked by:  **CFP**